

FIGURE 1

1 CTGAGCTCTGAGACAGTGTTCGATGCTTTGAGCTTGGTGGCCTTTGCTCTCTGG
 60 GACTCTGAGACTCTGTGTCACGAAGCTACTGAAAGTCTCAACCACGGCAACTGAGGACC
 E T L R Q C F D D F A D L V P F D S W E -
 61 AGCGGCTCATGAGCAAGTTGGGCGCTCATGCACATGACATAAGGTTGGCTAAGCTGAGG
 120 TGGCGAGTACTCTCTTCAACCGGAGTACCTGTACTCTATTTCACCGATTTCGACTCC
 P L M R K L G L M D N E I K V A K A E A -
 121 CAGCGGGGCAAGGACACCTTGTGTCATGCTCAT
 157 GTGCGCGGGTGTCCCTGTGCAACANGTGTACTCA
 A G H R D T L X T M L -

00000-54032200

FIGURE 2

650220 5703460

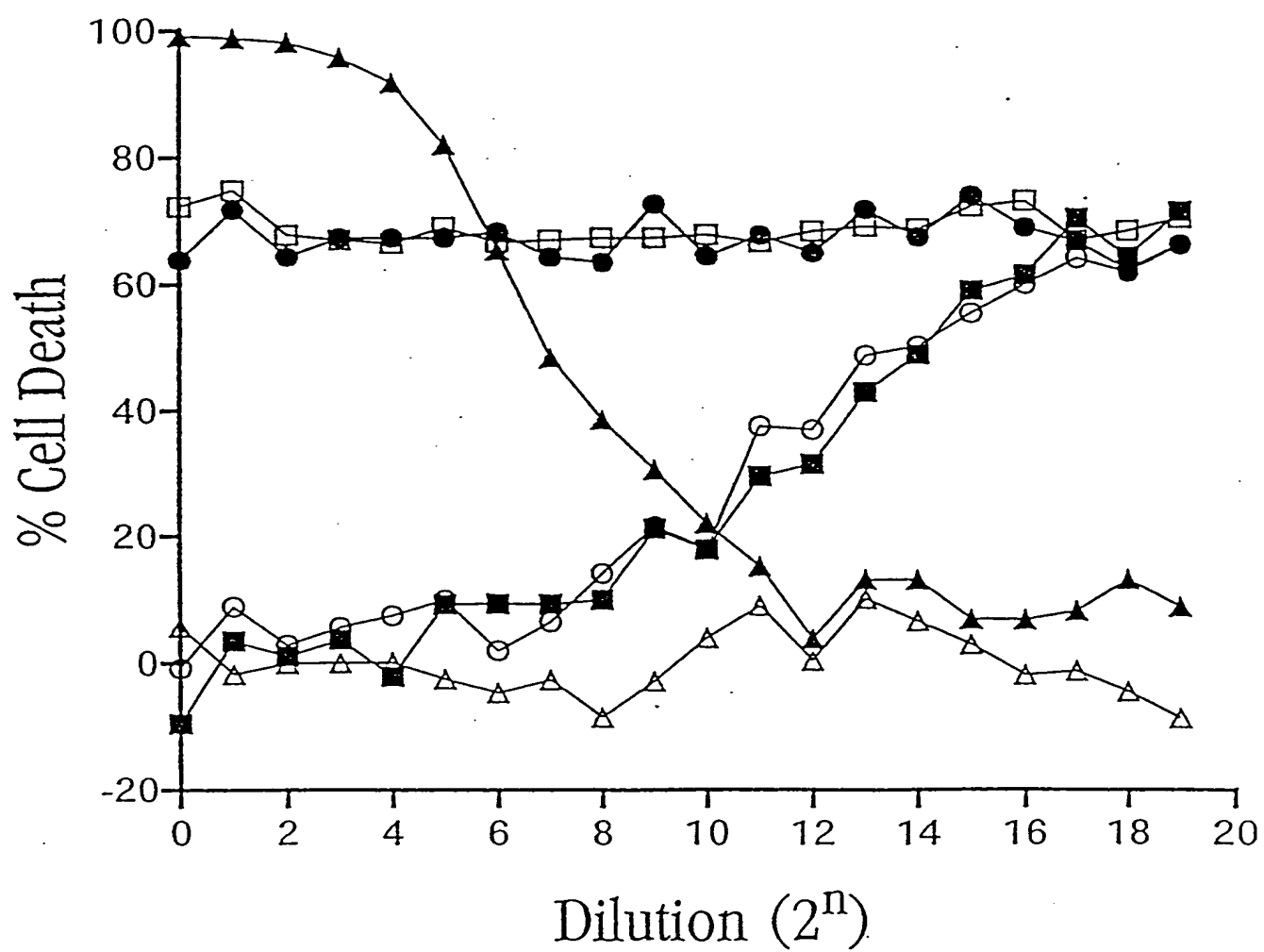


FIGURE 4A

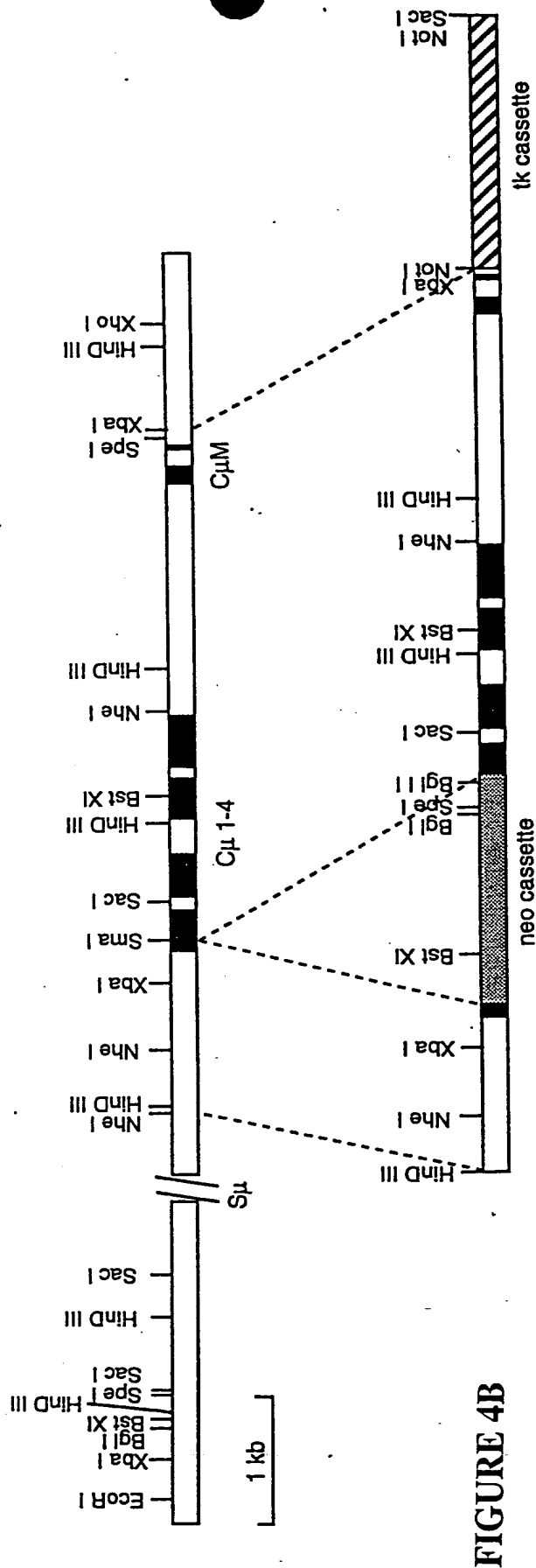


FIGURE 4B

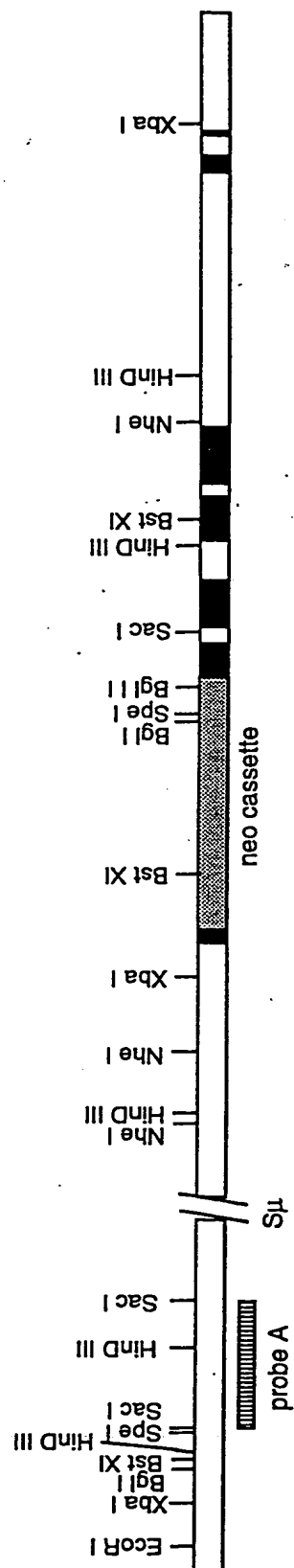


FIGURE 4C

FIGURE 5A

pGP1k

AATTAGCGGC	CGCTGTCGAC	AAGCTTCGAA	TTCAGTATCG	ATGTGGGGTA	50
CCTACTGTCC	CGGGATTGCG	GATCCGCGAT	GATATCGTTG	ATCCTCGAGT	100
GCGGCCCGCAG	TATGCAAAAA	AAAGCCCCT	CATTAGGCGG	GCTCTTGGCA	150
GAACATATCC	ATCGCGTCCG	CCATCTCCAG	CAGCCGCACG	CGGCGCATCT	200
CGGGCAGCGT	TGGGTCCCTGG	CCACGGGTGC	GCATGATCGT	GCTCCTGTCTG	250
TTGAGGACCC	GGCTAGGCTG	GCGGGGTTCG	CTTACTGGTT	AGCAGAATGA	300
ATCACCGATA	CGCGAGCGAA	CGTGAAGCGA	CTGCTGCTGC	AAAACGTCTG	350
CGACCTGAGC	AACAACATGA	ATGGTCTTCG	GTTTCCGTGT	TTCGTAAAGT	400
CTGGAACGCG	GGAAGTCAGC	GCCCTGCACC	ATTATGTTCC	GGATCTGCAT	450
CGCAGGATGC	TGCTGGCTAC	CCTGTGGAAC	ACCTACATCT	GTATTAACGA	500
AGCGCTGGCA	TTGACCCTGA	GTGATTTTTC	TCTGGTCCCG	CCGCATCCAT	550
ACCGCCAGTT	GTTTACCCTC	ACAACGTTCC	AGTAACCGGG	CATGTTTCATC	600
ATCAGTAACC	CGTATCGTGA	GCATCCTCTC	TCGTTTCATC	GGTATCATTA	650
CCCCCATGAA	CAGAAATTCC	CCCTTACACG	GAGGCATCAA	GTGACCAAAC	700
AGGAAAAAAC	CGCCCTTAAC	ATGGCCCCGT	TTATCAGAAAG	CCAGACATTA	750
ACGCTTCTTG	AGAAACTCAA	CGAGCTGGAG	GCGGATGAAC	AGGCAGACAT	800
CTGTGAATCG	CTTCACGACC	ACGCTGATGA	GCTTTACCGC	AGCTGCCTCG	850
CGCGTTTCGG	TGATGACGGT	GAAAACCTCT	GACACATGCA	GCTCCCGGAG	900
ACGGTCACAG	C'TGTCTGTA	AGCGGATGCC	GGGAGCAGAC	AAGCCCCGTC	950
GGGCGCGTCA	GCGGGTGTTC	GCGGGTGTTC	GGGCGCAGCC	ATGACCCAGT	1000
CACGTAGCGA	TAGCGGAGTG	TATACTGGCT	TAACATATGCG	GCATCAGAGC	1050
AGATTGTACT	GAGAGTGCAC	CATATGCGGT	GTGAAATACC	GCACAGATGC	1100
GTAAGGAGAA	AATACCGCAT	CAGGCGCTCT	TCCGCTTCCT	CGCTCACTGA	1150
CTCGCTGCGC	TCCGTCGTTT	GGCTGCGGCG	AGCGGTATCA	GCTCACTCAA	1200
AGGCGGTAAT	ACGGTTATCC	ACAGAATCAG	GGGATAACGC	AGGAAAGAAC	1250
ATGTGAGCAA	AAGGCCAGCA	AAAGGCCAGG	AACCGTAAAA	AGGCCGCGTT	1300
GCTGGCGTTT	TTCCATAGGC	TCCGCCCCCC	TGACGAGCAT	CACAAAAATC	1350
GACGCTCAAG	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	AAGATACCAG	1400
GCGTTTCCCC	CTGGAAGCTC	CCTCGTGCGC	TCTCCTGFTT	CGACCCTGCC	1450
GCTTACCGGA	TACCTGTCCG	CCTTTCTCCC	TTCGGGAAGC	GTGGCGCTTT	1500
CTCATAGCTC	ACGCTGTAGG	TATCTCAGTT	CGGTGTAGGT	CGTTCGCTCC	1550
AAGCTGGGCT	GTGTGCACGA	ACCCCCCGTT	CAGCCCGACC	GCTGCGCCTT	1600
ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	1650
CACTGGCAGC	AGCCAGGCGC	GCCTTGGCCT	AAGAGGCCAC	TGGTAACAGG	1700
ATTAGCAGAG	CGAGGTATGT	AGGCGGTGCT	ACAGAGTTCT	TGAAGTGGTG	1750
GCCTAACTAC	GGCTACACTA	GAAGGACAGT	ATTTGGTATC	TGCGCTCTGC	1800
TGAAGCCAGT	TACCTTCGGA	AAAAGAGTTG	GTAAGTCTTG	ATCCGGCAAA	1850
CAAAACCACCG	CTGGTAGCGG	TGGTTTTTTT	GTTTGCAAGC	AGCAGATTAC	1900
GCGCAGAAAA	AAAGGATCTC	AAGAAGATCT	TTTGATCTTT	TCTACGGGGT	1950
CTGACGCTCA	TGGAACGAA	AACTCACGTT	AAGGGATTTT	GGTCATGAGA	2000
TTATCAAAAA	GGATCTTCAC	CTAGATCCTT	TTAAATTAAA	AATGAAGTTT	2050
TAAATCAATC	TAAAGTATAT	ATGAGTAAAC	TTGGTCTGAC	AGTTACCAAT	2100
GCTTAATCAG	TGAGGCACCT	ATCTCAGCGA	TCTGTCTATT	TCGTTTCATCC	2150
ATAGTTGCCT	GACTCCCCGT	CGTGTAGATA	ACTACGATAC	GGGAGGGCCT	2200
ACCATCTGGC	CCCAGTGCTG	CAATGATACC	GCGAGACCCA	CGCTCACCCG	2250
CTCCAGATTT	ATCAGCAATA	AACCAGCCAG	CCGGAAGGGC	CGAGCGCAGA	2300
AGTGGTCCGT	CAACTTTATC	CGCCTCCATC	CAGTCTATTA	ATTGTTGCCG	2350
GGAAGCTAGA	GTAAGTAGTT	CGCCAGTTAA	TAGTTTGCGC	AACGTTGTTG	2400
CCATTGCTGC	AGGCATCGTG	GTGTACGCT	CGTCGTTTGG	TATGGCTTCA	2450
TTCAGCTCCG	GTTCCCAACG	ATCAAGGCGA	GTTACATGAT	CCCCCATGTT	2500
GTGCAAAAAA	GCGGTTAGCT	CCTTCGGTCC	TCCGATCGTT	GTCAGAAGTA	2550
AGTTGGCCCG	AGTGTATCA	CTCATGGTTA	TGGCAGCACT	GCATAATTCT	2600
CTTACTGTCA	TGCCATCCGT	AAGATGCTTT	TCTGTGACTG	GTGAGTACTC	2650
AACCAAGTCA	TTCTGAGAAT	AGTGTATGCG	GCGACCGAGT	TGCTCTTGCC	2700
CGGCGTCAAC	ACGGGATAAT	ACCGCGCCAC	ATAGCAGAAC	TTTAAAAGTG	2750
CTCATCATTT	GAAAACGTTT	TTCCGGGGCG	AAACTCTCAA	GGATCTTACC	2800
GCTGTTTGAGA	TCCAGTTCGA	TGTAACCCAC	TCGTGCACCC	AACGTATCTT	2850
CAGCATCTTT	TACTTTTACC	AGCGTTTCTG	GGTGAGCAAA	AACAGGAAGG	2900
CAAAATGCCG	CAAAAAAGGG	AATAAGGGCG	ACACGGAAAT	GTTGAATACT	2950
CATACTCTTC	CTTTTTTCAAT	ATTATTGAAG	CATTATATCAG	GGTTATTGTC	3000

FIGURE 5B

TCATGAGCGG	ATACATATTT	GAATGTATTT	AGAAAAATAA	ACAAATAGGG	3050
GTTCCGCGCA	CATTTCCCCG	AAAAGTGCCA	CCTGACGTCT	AAGAAACCAT	3100
TATTATCATG	ACATTAACCT	ATAAAAATAG	GCGTATCACG	AGGCCCTTTC	3150
GTCTTCAAG					3159

660230 3403460